PTO/SB/05 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.	129955/11854 (21635-0122)
First Inventor	SHAMBLEN et al.
Title	PRODUCING NICKEL-BASE, COBALT-BASE, IRON- BASE, IRON-NICKEL-BASE, OR IRON-NICKEL- COBALT-BASE ALLOY ARTICLES BY REDUCTION OF NONMETALLIC PRECURSOR COMPOUNDS AND MELTING
Express Mail Label No.	ER 232052645 US

APPLICATION ELEMENTS			1	Mail Stop Patent Application Commissioner for Patents					
See MPEP c				ADDR	ADDRESS 10: P.O. Box 1450				
See MPEP chapter 600 concerning utility patent application contents.					Alexandria VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATIONS PARTS 9. Assignment Papers (cover sheet & document(s))				
				11.	12. ☐ Information Disclosure ☐ Copies of IDS Statement (IDS)/PTO-1449 Citations 13. ☐ Preliminary Amendment 14. ☐ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. ☐ Other: Certificate of Express Mailing, NASA Declaration				
		n has been inadve	rtently omitted		nitted applica	tion parts.			
☑ Custon	☐ Customer Number 31450								
Name									
Address									
City									
Country			Teleph	State one		Zip	Code Fax		
Name (Print/	Туре)	Jonathan P. Mill			Registration N	o. (Attorney/Agen	48,483		
Signature		-					Date	March 31, 2004	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S.

FEE TO ANOMITTAL	Complete if Known					
FEE TRANSMITTAL	Application Number					
for FY 2004	Filing Date	March 31, 2004				
	First Named Inventor	SHAMBLEN et al.				
Effective 10/01/2003. Patent fees are subject to annual revision.	Examiner Name	n/a				
Applicant claims small entity status. See 37 CFR 1.27	Art Unit	n/a				
TOTAL AMOUNT OF PAYMENT (\$) 918	Attorney Docket No.	129955/11854 (21635-0122)				

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)					
INC THOO OF PATINICAT (CHECK SII WAS Apply)				3. ADDITIONAL FEES					
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order				J. AD		Small E			
☑ Deposit Account:									
Deposit	· · · · · · · · · · · · · · · · · · ·			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account 50-1	059			1051	130	2051	65	Surcharge - late filing fee or oath	
Number				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit Account McNees Wallace & Nurick LLC				1053	130	1053	130	Non-English specification	
				1812	2,520	1812	2,520	For filing a request for reexamination	
Name The Director is authorized to: (check all that apply)					920*	1804	920*	Requesting publication of SIR prior to Examiner action	
 ☑ Charge fee(s) indicated below ☑ Credit any overpayments ☐ Charge any additional fee(s) during the pendency of this application 				1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
☐ Charge fee(s) indicated below, except for the filing fee					110	2251	55	Extension for reply within first month	
to the above-identified de	FEE CALCULATION			1252	420	2252	210	Extension for reply within second month	
1. BASIC FILING	FFF			1253	950	2253	475	Extension for reply within third month	
Large Entity Small	intity			1254	1,480	2254	740	Extension for reply within fourth month	
Fee Fee Fee Code (\$) Code	Fee <u>Fee Descriptio</u> (\$)	<u>n</u> Fee Paid		1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2001	385 Utility filing fee	770	7 I	1401	330	2401	165	Notice of Appeal	
1002 340 2002	170 Design filing fee	<u> </u>		1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 2003	265 Plant filing fee		-	1403	290	2403	145	Request for oral hearing	
1004 770 2004	385 Reissue filing fe			1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005	80 Provisional fillin	g ree	J	1452	110	2452	55	Petition to revive – unavoidable	
s	JBTOTAL (1)	(\$) 770	- 1	1453	1,330	2453	665	Petition to revive – unintentional	
		(\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLAIM FE	ES FOR UTILITY A	ND REISSUE		1502	480	2502	240	Design issue fee	
		ee from Fee		1503	640	2503	320	Plant issue fee	
Fotal Claims 26 -2	Claims 	pelow Paid 18 = 108	- I	1460	130	1460	130	Petitions to the Commissioner	
	, <u>- </u>	100	╡╏	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
ndependent Claims 2 -	** = 0 X	86 = 0	┚┃	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent	x [= 0		8021	40	8021	40	Recording each patent assignment per property (times number of	40
	all Entity			1809	770	2809	385	properties)	\vdash
Fee Fee Code (\$) Cod	,							Filing a submission after final rejection (37 CFR § 1.129(a))	
1202 18 220				1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1201 86 220		nt claims in excess of 3						examined (57 CFR g 1.125(b))	\vdash
1203 290 220 1204 86 220	43 ** Reissue	Multiple dependent claim, if not paid ** Reissue independent claims over			770	2801		Request for Continued Examination (RCE)	
.204	originai pat			1802	900 l	1802	900	Request for expedited examination of a design application	
1205 18 220	over original patent				Other fee (specify)				
	SUBTOTAL (2)	(\$) 108	7 I	Other fe	e (speci	'У)			
		(#) 100	JĮ	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40					
**or number previously pa	id, if greater; For Reissues,	see above			, _,			(4)	 J

SUBMITTED BY

Registration No. (Attorney/Agent)

Signature

Complete (if applicable)

Registration No. (Attorney/Agent)

48,483

Telephone

717-237-5358

Date

March 31, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.22. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. 1.10 on the date indicated below, Express Mail Label Number ER 232052645 US, dated March 31, 2004 and addressed to:

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

- Return Acknowledgment Postcard 1.
- 2. Utility Patent Application Cover Sheet
- 3. Fee Transmittal Form
- Patent Application (22 pages) 4.
- 5. Drawings (2 sheets)
- 6. Declaration (1 copy of executed originals, 2 pages)
- **Application Data Sheet** 7.
- 8. NASA Declaration (1 copy of executed originals, 4 pages)
- Power of Attorney (1 copy of executed originals, 4 pages) 9.
- 10. Assignment Recordation Form .
- Assignment (1 copy of executed originals, 5 pages) 11.
- Information Disclosure Statement 12.
- 13. PTO/SB/08
- 14. References Cited (1 Foreign)

By: (Type signature) Lindsay Vican

Written Signature: Linday Vi Date: March 31, 2004